11 Representation of Data

Q1. The following table gives information about the number of books in a book fair. Look at the pictograph given below and answer the following questions:

Science fiction	📘📘📘📘📘
Drama	📘📘📘
Mystery	📘📘▪
Horror	📘📘📘

Key: 📘 = 20 books

a. The maximum number of books belong to which genre?
b. How many books on mystery are available in the fair?
c. Which two genres have the same number of books?
d. What is the total number of books displayed in the fair?

Q2. The following table shows the number of different cars parked in the parking lot of a mall. Look at the pictograph given below and fill in the blanks:

Sedan	🚗🚗🚗🚗
Hatchback	🚗🚗🚗🚗🚗
SUV	🚗🚗🚗🚗
Mini van	🚗🚗🚗

Key: 🚗 = 25 cars

a. There are _____ more hatchbacks than Mini vans.
b. There are _____ SUVs parked in the parking lot.

c. The number of SUVs and _____ are equal.

d. There are _____ less Sedans than Hatchbacks.

Q3. Mr. Joe wishes to make a pictograph to show the number of copies of his weekly newspaper sold in the various cities. Help him by using the data given below and make a suitable key:

Delhi- 15,000 copies

Chennai- 2500 copies

Mumbai- 10,000 copies

Kolkata- 5000 copies

Delhi			
Chennai			
Mumbai			
Kolkata			

Q4. The toy shop had 4 toys on sale last week: a doll, a toy train, a toy truck and a teddy bear. The following pictograph shows how many of each were sold last week.

Dolls	🎁 🎁 🎁 🎁 🎁
Toy Train	🎁 🎁 🎁 🎁
Toy truck	🎁 🎁 🎁
Teddy bear	🎁 🎁

Key 🎁 = 10 toys

Based on this information answer the questions given below:

a. How many teddy bears were sold last week?

b. How many more dolls than toy trucks were sold last week?

c. Which toy was sold the most?

d. How many toys were sold altogether?

Q5. Children in a class voted for their favourite sandwich.

| Sandwich	Number of votes
Cheese sandwich	7
Potato sandwich	6
Chicken sandwich	5
Cucumber sandwich	10

Based on the data provided in the above table, draw appropriate number of smileys in the pictograph for chicken and cucumber sandwiches.

| Cheese sandwich	☺ ☺ ☺ ◖
Potato sandwich	☺ ☺ ☺
Chicken sandwich	
Cucumber sandwich	

1 ☺ = 2 children

Q6. A group of students collected data about how the children come to school. Based on the following data make a bar graph to show how the children get to school.

Walk- 40 students

Bicycle – 30 students

Bus- 35 students

Train – 20 students

Car- 10 students

3
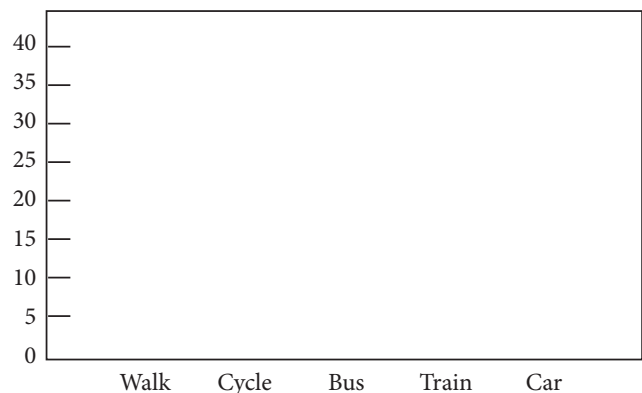
Q7. **A shop selling sports equipment ran a poll asking people which sport they liked the most. The results were displayed in the form of a graph given below:**
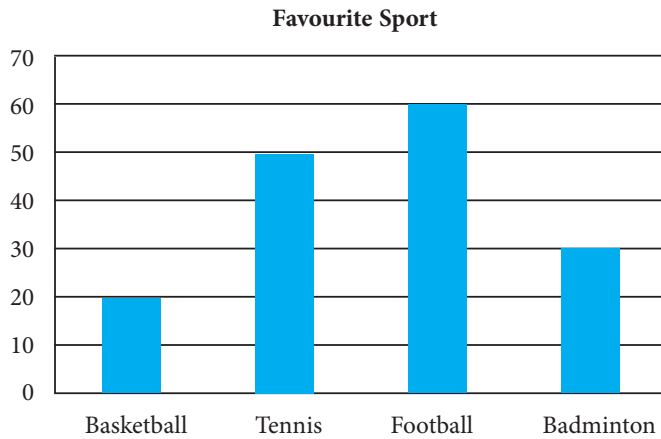
Favourite Sport

Use the graph to answer the questions given below:

a. How many people voted badminton as their favourite sport?

b. Which sport was liked by the most number of people?

c. How many more people liked football than basketball?

d. What is the combined number of people who like tennis and basketball?

**Q8.** **A DVD parlour tracked the number of DVDs sold over five months. The data was recorded in the graph given below. Answer the questions based on the graph:**
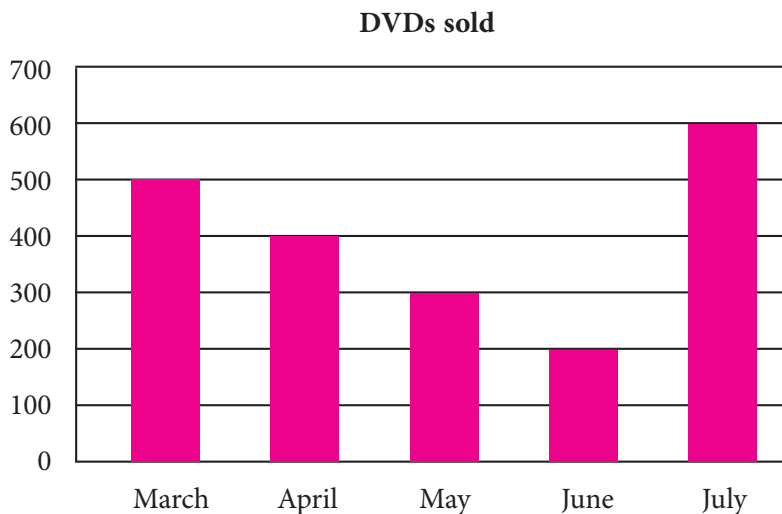
DVDs sold

a. How many total DVDs were sold in May and June collectively?

b. Which month recorded the maximum sales?

c. In which months DVDs sold were more than 400?

d. Which month recorded minimum sale?

Q9. For six months, Daksh and Sneha tracked the number of hours each of them played games and interpreted the results in the graph below.

Number of hours spent playing games
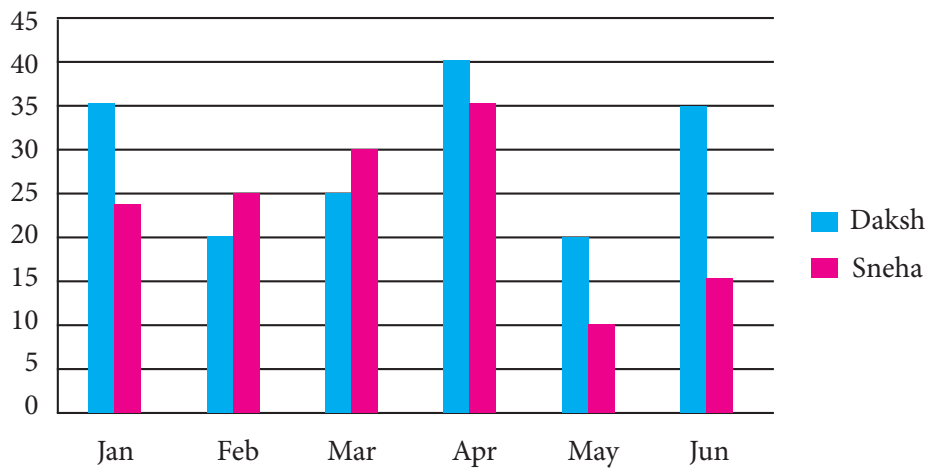
Answer the following questions based on the graph above:

a. In which month did Sneha play for more than 30 hours?

b. In which months Daksh played games for a longer time than Sneha?

c. In how many months Daksh played for more than 30 hours?

d. For total how many hours did both of them play in the month of May?

Q10. Raj owns two appliances stores. He compared the sales of the two stores and recorded the information in the bar graph given below. Use the bar graph to answer the questions.
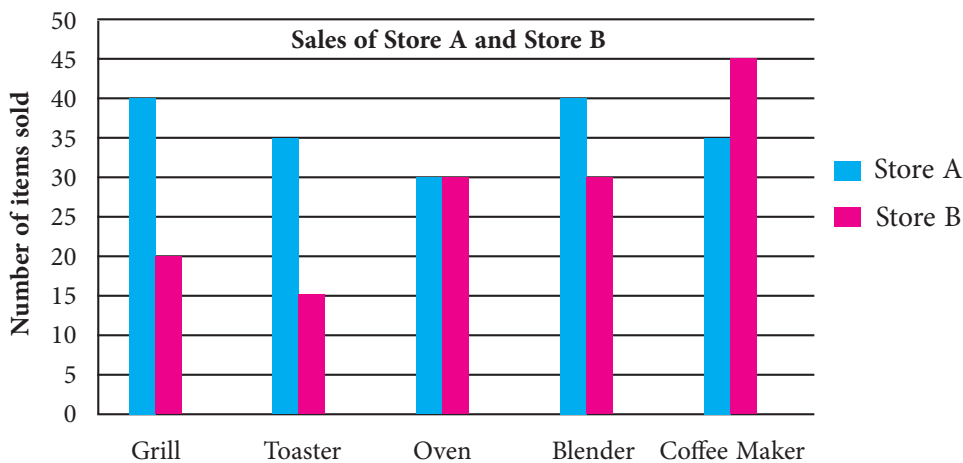
a. Which item sold the most in Store B?

b. Which store sold less number of blenders?

c. Which appliance was sold equally in both the stores?

d. How many more coffee makers were sold in Store B than Store A?

Q11. The number of visitors visiting the national park in the first four months was recorded for two years and shown in the graph given below. Use the bar graph to answer the questions.

Visitors in the year 2001 and 2002
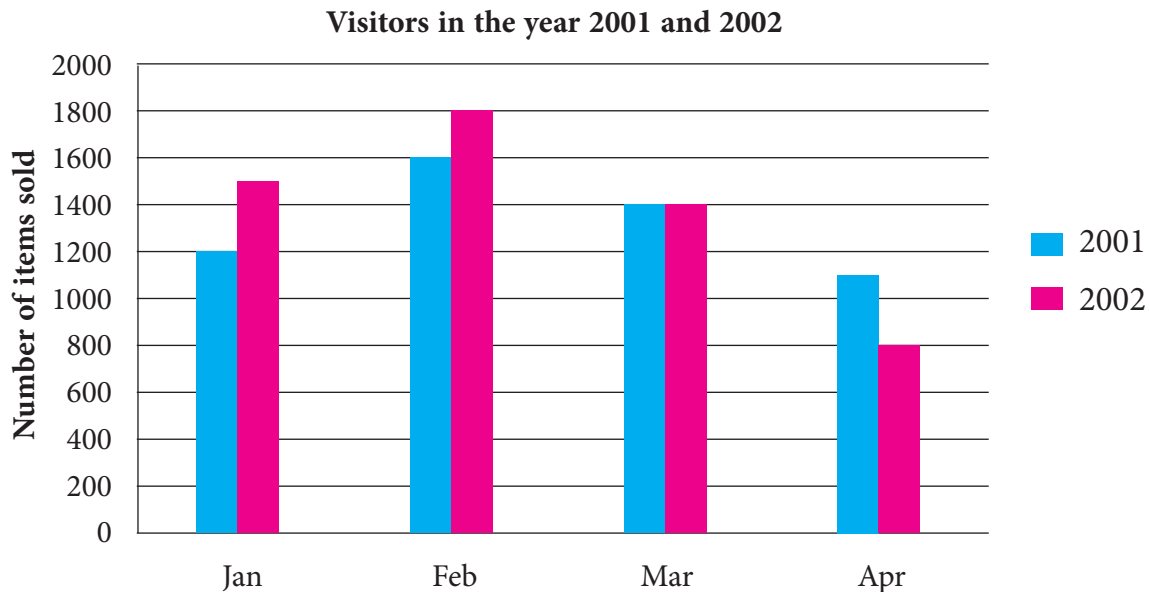
a. In which month the number of visitors were the same in both years?
b. Which year received more footfall in the month of April?
c. How many more people visited the park in Januray in the year 2002 than 2001?
d. How many people visited the park in Feb in 2001?

Q12. The students of a class were asked about their favourite genre of music. The data gathered is recorded in the table below:

| Type of music	Number of boys	Number of girls
Rock	15	20
Classical	10	25
Country	25	15

Show this in the form of column graph.

Q13. Highest temperatures of the first five months in Delhi were recorded and interpreted in the column graph below. Look at the column graph carefully and fill in the missing entries in the table:

Max Temperature in Delhi
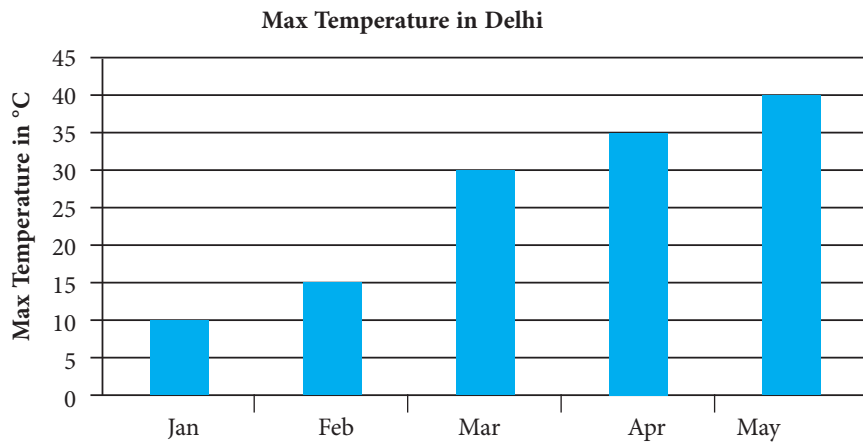
Month	Maximum Temperature (in °C)
January	10
February	___
March	___
April	35
May	___

Q14. The students of a class were shown different shapes. Each student had to vote for the shape they liked the most. The data is recorded in the graph given below. Fill in the missing entries in the table on the basis of the graph.

Favourite shape of class IV A
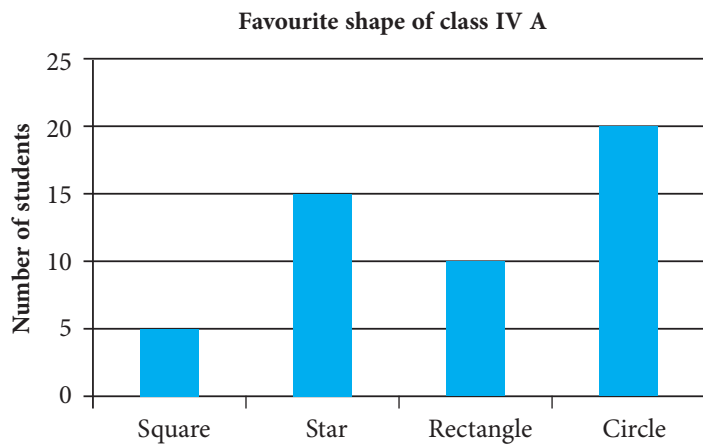
Shape	Number of students
Square	____
Star	15
Rectangle	____
Circle	____

Q15. In the previous match the batting score of 4 batsmen was recorded in the graph given below. Fill in the blanks according to the information provided in the graph:

Runs scored in previous match
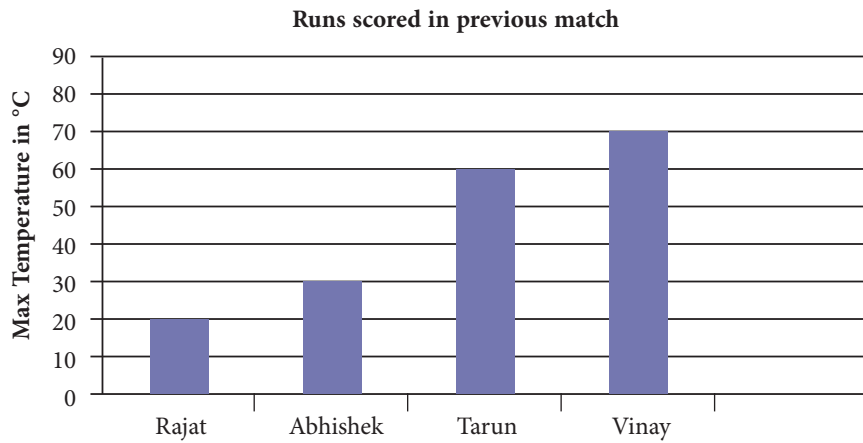
a. Best performance was shown by _____.

b. Rajat scored _____ less runs than Abhishek.

c. In the match Abhishek scored _____ runs.

d. The player who scored the least runs is _____.

1. a. Science fiction
    b. 50 books
    c. Drama and Horror
    d. 270 books

2. a. 50
    b. 100
    c. Sedans
    d. 25

3.

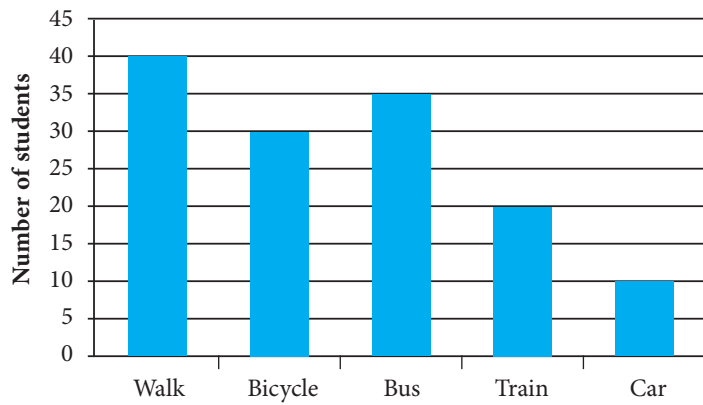| Delhi	▲▼	▲▼	▲▼
Chennai	▼		
Mumbai	▲▼	▲▼	
Kolkata	▲▼		

1 ▲▼ = 5000 copies

4. a. 20
    b. 20
    c. Doll
    d. 140

5.

Chicken sandwich	☺ ☺ ◖
Cucumber sandwich	☺ ☺ ☺ ☺ ☺

6.

7.   a. 30
        b. Football
        c. 40
        d. 70

8.   a. 500
        b. July
        c. March and July
        d. June

9.   a. April
        b. January, April, May, June
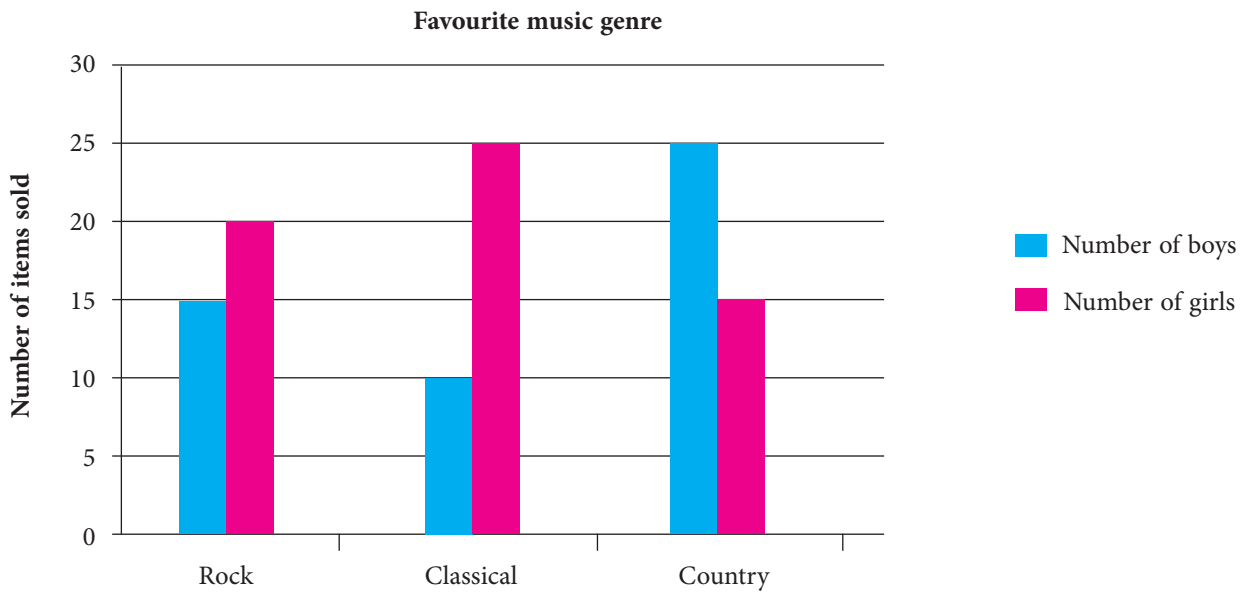   c. 3 months
        d. 30 hours

10.   a. Coffee Maker
        b. Store B
        c. Oven
        d. 10

11.   a. March
        b. 2001
        c. 300
        d. 1600

12.

Favourite music genre

13.

Jan	10
Feb	15
Mar	30
Apr	35
May	40

14.

Shapes	Number of students
Square	5
Star	15
Rectangle	10
Circle	20

15. a. Vinay

b. 10

c. 30

d. Rajat